



Exam Code: 000-535

Exam Name: IBM Certified Specialist- Advanced
Manufacturing

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Part: A

1: A team has a heavily conventional group style. Their solutions are below average and they do not achieve synergy. The team members feel that the group could be doing somewhat better. What is the best suggestion for minimizing the negative impact of this style?

A.Emphasize the importance of arriving at a consensus decision - one that all members can buy into.

B.Establish a feeling of unity among group members. Remind the team that when the group wins, everyone wins.

C.Play "devil's advocate" when group members keep proposing the same safe solution. Ask probing questions to pinpoint the pros and cons of their solution.

D.Encourage the more reserved group members to speak up. They may be able to supply missing information and a fresh perspective. Make sure to include them so they understand their value to the team.

Correct Answers: C

2: Which of the following best describes an example of subordinating all decisions to the output capability of the constriction, or bottleneck?

A.Additional capacity is obtained by purchasing the capital equipment needed to keep up with demand.

B.The output of all operations in front of the bottleneck, including release, is reduced to match that of the constriction.

C.The output capabilities for processes downstream from the bottleneck are increased so that product will move quickly once it passes the constriction.

D.Capacity figures for all resources are reviewed and compared with demand in order to determine the bottleneck department so that work schedules can be established.

Correct Answers: B

3: Which of the following is the best definition of Manufacturing Cycle Time?

A.It is the total time it takes to process, ship and deliver a product to a customer.

B.It is the total time that it takes to process a product through a Manufacturing line.

C.It is the total time it takes to process a product from receipt of raw materials to stock through delivery to the customer.

D.It is the total time it takes to process a product from receipt of raw materials through the last manufacturing operation excluding non-value-added process steps.

Correct Answers: B

4: Which of the following best describes the benefits of Takt Management in a manufacturing line?

A.Hourly output is monitored versus hourly demand so that production shortfalls can be identified and addressed.

B.Hourly fluctuations in WIP are monitored and reasons for special cause variation are identified and addressed.

C.As constrictions, or bottlenecks, move throughout the manufacturing line, the bottleneck is

identified and Takt targets are increased.

D.Ongoing process improvement is achieved by identifying enhancers and detractors to output resulting in improvement opportunities for the line.

Correct Answers: D

5: Which of the following is a constructive cultural characteristic of an effective team?

A.The team leader is expected to provide initiative.

B.The team takes a "failure is not an option" attitude when identifying goals.

C.Individual accomplishment is recognized and rewarded as a model for other team members.

D.People are encouraged to be decisive, take moderate risks, take initiative and be accountable.

Correct Answers: D

6: One of an organization's productivity values is "Prioritization is a major barrier to production."

Which of the following run rules supports that value?

A.First In First Out (FIFO) will be practiced in all areas.

B.Engineering builds are exempt from any prioritization run rules.

C.Complete Takt charts hourly.

D.Respect customer Kanban limits.

Correct Answers: A

7: Which of the following is a critical rule for the successful implementation of a Kanban system?

A.Limits may be violated by the supplier only.

B.Once established, limits should never change, regardless of the reason.

C.Limits should be reviewed regularly, and changed when necessary by a central authority.

D.A customer should feel free to request a violation of established limits for any reason, because they best recognize their own needs.

Correct Answers: C

8: Which of the following is an attribute of an effective team?

A.Works toward reaching consensus

B.Expects conformity from team members

C.Uses a democratic process for decision-making

D.Encourages discussion until the leader closes the topic

Correct Answers: A

9: Which of the following is the most effective technique for performing queuing analysis?

A.Process Mapping

B.Pareto Analysis

C.Simulation Modeling

D.Statistical Process Analysis

Correct Answers: C

10: Which of the following WIP management techniques promotes the concept of root cause analysis?

- A.A capacitated release strategy implementation
- B.Dynabans implementation
- C.Kanbans implementation
- D.Takt management implementation

Correct Answers: D

11: Which of the following explains the purpose of manufacturing values?

- A.They allow each part of the organization to handle challenges as they see fit.
- B.They provide flexibility in decision-making in a constantly changing environment.
- C.They make decisions by managers predictable to the workforce and consistent with common shared beliefs.
- D.They allow each department to dictate its own reasonable set of values and operate in a way that makes the most sense, given their processes.

Correct Answers: C

12: Which of the following best describes how Takt Management can be used in a continuous improvement process?

- A.Production targets are continually increased based on growing demand resulting in Takt targets increasing to keep up with demand.
- B.Average hourly Takt information is used to identify weak and strong performers; this information is used to improve the employee appraisal system.
- C.Detractors and enhancers are identified that highlight which shift is outproducing the others; this information is used in a reward and incentive program.
- D.Output detractors are identified and reduced while output enhancers are identified and exploited on an ongoing basis resulting in overall output gains.

Correct Answers: D

13: Which of the following statements best describes strategic kanbans?

- A.They are created to address unforeseen situations.
- B.They become regular kanbans after the condition ends.
- C.They are created to prevent output loss due to a known condition.
- D.They are useful because of their minimum and maximum limits can be easily changed for greater production flexibility.

Correct Answers: C

14: What information would be required to establish a baseline model?

- A.MCE, Takt, and WIP
- B.Material costs, WIP, and CT
- C.Batch size, MCE, and capacity
- D.Batch sizes, number of operators available, process cycle time

Correct Answers: D

15: Which of the following is the primary responsibility of the core team, when developing the business case?

- A. Gather data for the industrial engineering (IE) lead.
- B. Provide all necessary information to the financial analyst (FA).
- C. Oversee the AMS process looking for mistakes and taking corrective action when necessary.
- D. Ensure that all appropriate metrics are quantified consistently across all proposed solutions.

Correct Answers: D

16: Which of the following best describes how Group Technology is applied in Manufacturing?

- A. It combines workers with similar skills into groups so that workflows can be optimized.
- B. It combines common process equipment into a group so that the use of equipment resources can be optimized.
- C. It combines common people skill and equipment into groups so that the people and equipment resources can be optimized.
- D. It combines products with similar raw process times, routings, and product-critical attributes so that product flow can be optimized.

Correct Answers: D

17: Which of the following is the best example of how improving cycle time increases competitiveness?

- A. Improving cycle time requires a substantial financial investment which results in higher cost of goods sold.
- B. Improving cycle time requires more employees which enable the factory to better respond to the customer's needs.
- C. Improving cycle time results in less inventory, reducing the cost of goods sold and improving cost competitiveness.
- D. Improving cycle time requires more WIP in the factory which creates a greater capacity to meet the customer's needs.

Correct Answers: C

18: Which of the following is a common cause of a constriction in a manufacturing line?

- A. Overproduction by suppliers overwhelms the bottleneck with too much WIP.
- B. The step following the bottleneck is NOT pulling product quickly enough.
- C. Large batch sizes and long setup times create excess WIP at the bottleneck.
- D. Excess resources are allocated, which elevate the output of the constriction.

Correct Answers: C

19: Which of the following process steps is a value-add step in a physician's office?

- A. Complete patient information at registration.
- B. Administer injection
- C. Prepare hypodermic syringe
- D. Relocate patient from the waiting room into the examining room.

Correct Answers: B

20: Which of the following best describes how to increase the Manufacturing Cycle Efficiency (MCE) in a manufacturing process?

- A. Eliminate waste in the process.
- B. Increase the overtime requirement.
- C. Increase the time spent on testing the product.
- D. Increase the number of operators in the process.

Correct Answers: A